

#2

JC978 U.S. PTO  
09/838463  
04/19/01

UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Wadood Hamad et al.

Serial No.: Not yet assigned

Filed: Concurrently

Title: METHOD FOR MANUFACTURING PAPER AND PAPERBOARD  
USING FRACTURE TOUCHNESS MEASUREMENT

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

U.S. PATENT DOCUMENTS

| EXAMINER<br>INITIAL |   | PATENT<br>NUMBER | ISSUE<br>DATE | PATENTEE        | CLASS | SUB-<br>CLASS | FILING<br>DATE |
|---------------------|---|------------------|---------------|-----------------|-------|---------------|----------------|
|                     | A | 2,728,224        | 12/27/1955    | Wheeler         | 73    | 150           | 03/27/1952     |
|                     | B | 2,806,373        | 09/17/1957    | Bendtsen        | 73    | 159           | 05/26/1954     |
|                     | C | 2,833,146        | 05/06/1958    | Wharton         | 73    | 159           | 09/15/1955     |
|                     | D | 3,025,699        | 03/20/1962    | Patterson       | 73    | 88            | 10/07/1960     |
|                     | E | 3,548,647        | 12/22/1970    | Zacios          | 73    | 102           | 06/26/1967     |
|                     | F | 3,585,106        | 06/15/1971    | Sepall et al.   | 163   | 252           | 09/04/1969     |
|                     | G | 4,574,634        | 03/11/1986    | Pappano         | 73    | 597           | 08/09/1984     |
|                     | H | 4,662,991        | 05/05/1987    | Karnaet et al.  | 162   | 49            | 02/02/1984     |
|                     | I | 4,864,851        | 09/12/1989    | Haughton        | 73    | 159           | 05/26/1987     |
|                     | J | 4,866,984        | 09/19/1989    | Houghton        | 73    | 159           | 05/13/1988     |
|                     | K | 4,970,895        | 11/20/1990    | Houghton et al. | 73    | 159           | 03/09/1990     |
|                     | L | 4,991,432        | 02/12/1991    | Houghton et al. | 73    | 159           | 08/01/1989     |
|                     | M | 5,013,403        | 05/07/1991    | Chase           | 162   | 49            | 10/05/1987     |
|                     | N | 5,036,696        | 08/06/1991    | Ahrens et al.   | 73    | 12            | 07/30/1990     |
|                     | O | 5,104,488        | 04/14/1992    | Chase           | 162   | 198           | 04/17/1990     |

FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATIONS

| EXAM-<br>INER<br>INITIAL |  | DOCUMENT<br>NUMBER | PUBLI-<br>CATION<br>DATE | COUNTRY<br>OR<br>PATENT<br>OFFICE | CLASS | SUB-<br>CLASS | TRANS-<br>LATION |
|--------------------------|--|--------------------|--------------------------|-----------------------------------|-------|---------------|------------------|
|                          |  |                    |                          |                                   |       |               | YES NO           |
|                          |  |                    |                          |                                   |       |               |                  |

Examiner:

ALVO

Date Considered:

12-4-01

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

## OTHER DOCUMENTS

(Including Author, Title, Date, Relevant Pages, Place of Publication)

|    |   |   |
|----|---|---|
|    | P | B. Cotterell and J.K. Reddel; The Essential Work of Plane Stress Ductile Fracture, Int. J. Fracture, Vol. 13, No. 3, June 1977, pp. 267-277.  |
|    | Q | G. Robertson, J. Simkins and J. Hoffman; Fracture Toughness Clamps and Sample Notching Jig: Notes on Design, Fabrication and Use, April 1993, PAPRICAN, Vancouver Laboratory.                 |
| 94 | R | D.H. Page and R.S. Seth; The Problem of Pressroom Runnability, TAPPI J., Vol. 65, No. 8, Aug. 1982, pp. 92-95.  |
|    | S | S. Seth and D.H. Page; Fracture Resistance: A Failure Criterion for Paper, Tappi J., Vol. 58, No. 9, Sept. 1975, pp. 112-117.   |
|    | T | R.S. Seth; Plane Stress Fracture Toughness and its Measurement for Paper, Trans. Of Tenth Fund. Res. Symp., Oxford, C.F. Baker (ed.), PIRA International, Leatherhead, Surrey, U.K., p. 1529. |
|    | U | R.S. Seth, A.G. Robertson, Y.W. Mai and J.D. Hoffman; Plane Stress Fracture Toughness of Paper, TAPPI J., Vol. 76, No. 2, Feb. 1993, pp. 109-116.   |

Examiner:

ALN

Date Considered:

12-4-01

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.